COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1740: Ignition Theory

A. CATALOG DESCRIPTION
   1. Credits: 2
   2. Hours/Week: 2
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

   This course covers the design, function, diagnosis and repair steps of conventional and electronic ignition systems.

B. DATE LAST REVISED (Month, year): February, 2015

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Identification of Electronic ignition (EI) systems
   2. Design and Function of Current Ignition Systems
   3. Ignition Timing Factors
   4. Intro to Ignition Sensors
   5. Intro to OBD I Misfire Detection System
   6. Diagnosis and Repair of Ignition Systems

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Describe ignition system operations.
   2. Describe various ignition designs.
   3. List repair and diagnosis steps.
   4. Evaluate ignition oscilloscope patterns.
   5. Explain ignition timing procedures.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Quizzes
   2. Tests
   3. Assignments
   4. Worksheets

G. RCTC CORE OUTCOME(S) ADDRESSED:
   ☑ Communication   ☑ Civic Responsibility
   ☑ Critical Thinking ☑ Personal/Professional Accountability
   ☐ Global Awareness/Diversity ☐ Aesthetic Response

H. SPECIAL INFORMATION (if any): None